

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of production of a dielectric, ceramic composition having at least
 - main component expressed by a formula Ba_mTiO_{2+n} , wherein m is $0.995 \leq m \leq 1.010$, n is $0.995 \leq n \leq 1.010$, and the ratio of Ba and Ti is $0.995 \leq Ba/Ti \leq 1.010$,
 - a first subcomponent containing at least one compound selected from MgO, CaO, BaO, SrO, and Cr_2O_3 ,
 - a second subcomponent containing at least one compound selected from SiO_2 , MO (where M is at least one element selected from Ba, Ca, Sr, and Mg), Li_2O , and B_2O_3 ,
 - a third subcomponent containing at least one compound selected from V_2O_5 , MoO_3 , and WO_3 , and
 - a fourth subcomponent containing an oxide of R (where R is at least one element selected from Y, Dy, Td, Gd, and Ho), wherein
 the molar ratio of the subcomponents with respect to 100 moles of the main component is
 - first subcomponent: 0.1 to 3 ~~moles~~,
 - second subcomponent: 2 to 12 ~~moles~~,
 - third subcomponent: 0.01 to 3 ~~moles~~,
 - fourth subcomponent: 0.1 to 10.0 ~~moles~~-(where, in the ratio, the number of moles of the fourth subcomponent is ~~a ratio~~ the number of moles of R alone),
 said method of producing the dielectric ceramic composition comprising the ~~step~~ steps of:

~~mixing in~~ mixing, in said main ~~component at~~ component, at least part of other subcomponents except for said second subcomponent to prepare a pre-calcination powder, calcining the pre-calcination powder to prepare a calcined powder, and mixing at least said second subcomponent in said calcinated powder to obtain the dielectric ceramic composition having molar ratios of the subcomponents to the main component of the above ratios.

2. (Currently Amended) The method of production of a dielectric ceramic composition as set forth in claim 1, ~~obtaining a said~~ obtaining a said dielectric ceramic composition further containing a fifth subcomponent containing MnO and having a molar ratio of the fifth subcomponent to 100 moles of the main component of 0.05 to ~~1.0 mole~~ 1.0.

3. (Currently Amended) The method of production of a dielectric ceramic composition as set forth in claim 1, ~~obtaining a said~~ obtaining a said dielectric ceramic composition having a molar ratio of the third subcomponent to 100 moles of the main component of 0.01 to ~~0.1 mole~~ 0.1.

4. (Currently Amended) The method of production of a dielectric ceramic composition as set forth in claim 2, ~~obtaining a said~~ obtaining a said dielectric ceramic composition having a molar ratio of the third subcomponent to 100 moles of the main component of 0.01 to ~~0.1 mole~~ 0.1.

5. (Original) The method of production of a dielectric ceramic composition as set forth in claim 1, wherein the pre-calcination powder is prepared so that the molar ratios of components contained in the pre-calcination powder (Ba+metal element of the first subcomponent)/(Ti+metal element of the fourth subcomponent) is less than 1, or (Ba+metal element of the fourth subcomponent)/(Ti+metal element of the first subcomponent) is over 1, and calcination is performed.

6. (Original) The method of production of a dielectric ceramic composition as set forth in claim 2, wherein the pre-calcination powder is prepared so that the molar ratios of components contained in the pre-calcination powder (Ba+metal element of the first subcomponent)/(Ti+metal element of the fourth subcomponent) is less than 1, or (Ba+metal element of the fourth subcomponent)/(Ti+metal element of the first subcomponent) is over 1, and calcination is performed.

7. (Original) The method of production of a dielectric ceramic composition as set forth in claim 1, wherein the first subcomponent is always contained in the pre-calcination powder when preparing the pre-calcination powder.

8. (Original) The method of production of a dielectric ceramic composition as set forth in claim 2, wherein the first subcomponent is always contained in the pre-calcination powder when preparing the pre-calcination powder.

9. (Original) The method of production of a dielectric ceramic composition as set forth in claim 1, wherein the pre-calcination powder is calcined at a temperature of 500°C to less than 1200°C.

10. (Original) The method of production of a dielectric ceramic composition as set forth in claim 2, wherein the pre-calcination powder is calcined at a temperature of 500°C to less than 1200°C.

11. (Original) The method of production of a dielectric ceramic composition as set forth in claim 9, wherein the calcination is performed for a plurality of times.

12. (Original) The method of production of a dielectric ceramic composition as set forth in claim 10, wherein the calcination is performed for a plurality of times.

13. (Original) The method of production of a dielectric ceramic composition as set forth in claim 1, wherein a mean particle size of the main component is 0.1 to 0.7 μm .

14. (Original) The method of production of a dielectric ceramic composition as set forth in claim 2, wherein a mean particle size of the main component is 0.1 to 0.7 μm .

15. (Original) The method of production of a dielectric ceramic composition as set forth in claim 1, wherein at least 70 wt% of the calcined powder is used with respect to the entire dielectric material as 100 wt%.

16. (Original) The method of production of a dielectric ceramic composition as set forth in claim 2, wherein at least 70 wt% of the calcined powder is used with respect to the entire dielectric material as 100 wt%.

17. (Original) A method of production of an electronic device containing dielectric layers comprising forming dielectric layers by using the dielectric ceramic composition obtained by the method set forth in claim 1.

18. (Original) A method of production of an electronic device containing dielectric layers comprising forming dielectric layers by using the dielectric ceramic composition obtained by the method set forth in claim 2.

19. (Currently Amended) A method of production of a multilayer ceramic capacitor comprised by alternately stacking internal electrodes comprised of Ni or Ni alloy and dielectric layers, where each of dielectric layers contains, in the molar ratios indicated, BaTiO_3 : 100-moles, at least one of MgO and CaO: 0.1 to 3-moles, MnO: 0.05 to 1.0-mole, Y_2O_3 : 0.1 to 5-moles, V_2O_5 : 0.01 to 3-moles, and $\text{Ba}_a\text{Ca}_{1-a}\text{SiO}_3$ (where the symbol (a) is a number from 0 to 1): 2 to 12-moles,

~~characterized by using at least 70 wt% of the material, which is premixed said~~
method comprising: premixing in BaTiO_3 at least one of MgO, CaO and a compound
forming MgO or CaO upon heat treatment, and pre-calcined-pre-calcinating the premixture at
a temperature of 900°C to 1300°C, with respect to the entire dielectric material and using the
pre-calcinated premixture to form the dielectric layers,

wherein the pre-calcinated premixture forms at least 70 wt% of the dielectric layers.

20. (Currently Amended) A method of production of a multilayer ceramic capacitor comprised by alternately stacking interal electrodes comprised of Ni or Ni alloy and dielectric layers, where each of dielectric layers contains, in the molar ratios indicated, BaTiO₃: 100-~~moles~~, at least one of MgO and CaO: 0.1 to 3-~~moles~~, MnO: 0.05 to 1.0-~~mole~~, Y₂O₃: 0.1 to 5-~~moles~~, V₂O₅: 0.01 to 3-~~moles~~, and Ba_aCa_{1-a}SiO₃ (where the symbol (a) is a number from 0 to 1): 2 to 12-~~moles~~,

~~characterized by using at least 70 wt% of the material, which is premixed~~
method comprising: premixing in BaTiO₃ at least one of MgO, CaO and a compound forming MgO or CaO upon heat treatment, MnO or a compound forming MnO upon heat treatment, Y₂O₃ or a compound forming Y₂O₃ upon heat treatment, and V₂O₅ or a compound forming V₂O₅ upon heat treatment, and pre-calcined pre-calcinating the premixture at a temperature of 900°C to 1300°C, with respect to the entire dielectric material and using the pre-calcinated premixture to form the dielectric layers,

wherein the pre-calcinated premixture forms at least 70 wt% of the dielectric layers.

21. (Original) The method of production of a multilayer ceramic capacitor as set forth in claim 19, wherein a mean particle size of the main component is 0.2 to 0.7 μm.

22. (Original) The method of production of a multilayer ceramic capacitor as set forth in claim 20, wherein a mean particle size of the main component is 0.2 to 0.7 μm.

REMARKS

Claims 1-22 are pending. Claims 1-4, 19 and 20 are amended herein.

Claims 1-22 are rejected under 35 U.S.C. §112, second paragraph, for allegedly being indefinite. Applicants respectfully traverse the rejection.

With regard to the alleged recitation of n', it is respectfully submitted that the alleged apostrophe is clearly a comma.

The claims have been amended to overcome the other aspects of the rejection. In particular, claims 1-4, as well as claims 19 and 20, have been amended to delete units after recitations of ratios. In addition, claim 1 has been amended to clarify the phrase "where, the number of moles of the fourth subcomponent is a ratio of R alone." As amended, this phrase clearly indicates that, in determining the ratio of the fourth component to the main component, the number of moles representing the fourth component is the number of moles of R alone, i.e., without the oxygen forming the oxide of R. Furthermore, claims 19 and 20 have been amended to clarify the "characterized by" phrase.

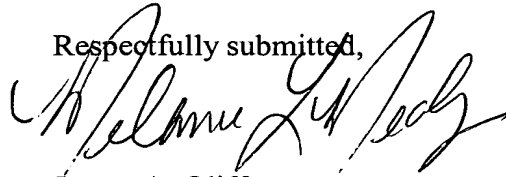
Based on these amendments, it is respectfully submitted that the rejection under 35 U.S.C. §112, second paragraph, should be reconsidered and withdrawn.

Claims 1-22 are also rejected under 35 U.S.C. §112, first paragraph, for allegedly lacking enablement based on some of the same language objected to in the §112, second paragraph, rejection. It is respectfully submitted that the above-mentioned amendments also address the enablement rejection. Therefore, this rejection should also be reconsidered and withdrawn.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-22 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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